

ABSTRACT OF THE DISCLOSURE

The present invention provides a storage system with snapshot-backup capability and method for the same. The storage system is electrically connected to a main system , and includes a storage device and a storage controlling unit therein. The storage device
5 consists of multiple primary data blocks and backup data blocks, and the storage
controlling unit includes a chip controller and an embedded driver software. The steps of
the storage method are as follows. The storage controlling unit receives at least a newly
stored data from the main system and determines whether the newly stored data is
different from at least a previously stored data located in the data blocks of the storage
10 device. While a difference between the newly and previously stored data is identified by
the storage controlling unit, each different previously stored data is snapshot backed-up
to the backup data blocks and then the corresponding different newly stored data is
written over the primary data blocks where said different previously stored data is
located.